

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,627,336 B2

Pg 1 of 12

APPLICATION NO. : 10/596,730

ISSUE DATE : December 1, 2009

INVENTOR(S) : Carlsson, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page showing the illustrative figure should be deleted to be replaced with the attached title page.

The drawing sheet, consisting of Fig. 1, should be deleted to be replaced with the drawing sheet, consisting of Fig. 1, as shown on the attached page.



US007627336B2

Pg 2 of 12

(12) **United States Patent**
Carlsson et al.(10) **Patent No.:** US 7,627,336 B2
(45) **Date of Patent:** Dec. 1, 2009(54) **POWER CONTROL FOR HIGH SPEED
PACKET DATA TRANSMISSION**

FOREIGN PATENT DOCUMENTS

(75) Inventors: **Roland Carlsson, Ojersjo (SE);
Torbjorn Karlsson, Lindome (SE)**

EP 1351411 A1 10/2003

(73) Assignee: **Telefonaktiebolaget L M Ericsson
(Publ), Stockholm (SE)**

(Continued)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 693 days.

OTHER PUBLICATIONS

(21) Appl. No.: 10/596,730

Swedish Patent Office, International Search Report for PCT/SE2003/002053, dated Jul. 16, 2004.

(22) PCT Filed: Dec. 22, 2003

Primary Examiner—Matthew D Anderson
Assistant Examiner—Bobbak Safaipour
(74) Attorney, Agent, or Firm—Roger S. Burleigh

(86) PCT No.: PCT/SE03/02053

(57) ABSTRACT

§ 371 (c)(1),
(2), (4) Date: Jun. 22, 2006

(87) PCT Pub. No.: WO2005/062489

PCT Pub. Date: Jul. 7, 2005

(65) Prior Publication Data

US 2007/0111745 A1 May 17, 2007

(51) Int. Cl.

H04B 7/00 (2006.01)
H04B 1/00 (2006.01)
H04B 7/185 (2006.01)

(52) U.S. Cl. 455/522; 455/69; 370/318

(58) Field of Classification Search 455/522,

455/69; 370/318

See application file for complete search history.

(56) References Cited

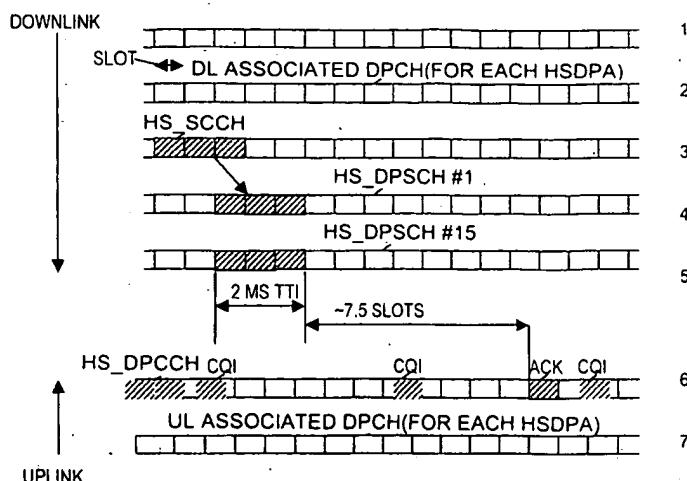
U.S. PATENT DOCUMENTS

5,924,043 A * 7/1999 Takano 455/522
5,982,760 A * 11/1999 Chen 370/335
6,628,924 B1 * 9/2003 Miyamoto 455/69

A transmitting unit comprising a first unit (CM_SCHDR) receiving scheduled first data (DATA2, DATA3) for transmission on at least a first channel, a power control unit (PWR_C-TRL) for the first channel responsive to a respective closed loop power regulation signal (TCP_CMD), under which at least the transmit power rate of change is limited to a predetermined value per time unit, a packet data scheduler (HS_S-CHDR) scheduling second data packets (DATA1), such as HSPDA data, for transmission on at least a second channel at an actual power level ($P_{-H}(t)$), and a power amplifier (POWER_AMP) amplifying and outputting the scheduled first and second channels, whereby the outputted first and second channels are subject to interference from one another, is shown. A possible power ($P_{-POS}(t)$) is determined at a given instance as the maximum value of either the actual power ($P_{-HS}(t-1)$) at a previous instance or the possible power determined at a previous instance ($P_{-POS}(t-1)$), decreasing the maximum value by a predetermined value (d). Moreover, a permitted power ($P_{-PERM}(t)$) at a given instance as the maximum value of either the actual power of a previous instance ($P_{-HS}(t-1)$) added with the predetermined value (d) or the determined possible power ($P_{-POS}(t)$). Finally, the scheduling is performed within these limits.

(Continued)

7 Claims, 8 Drawing Sheets



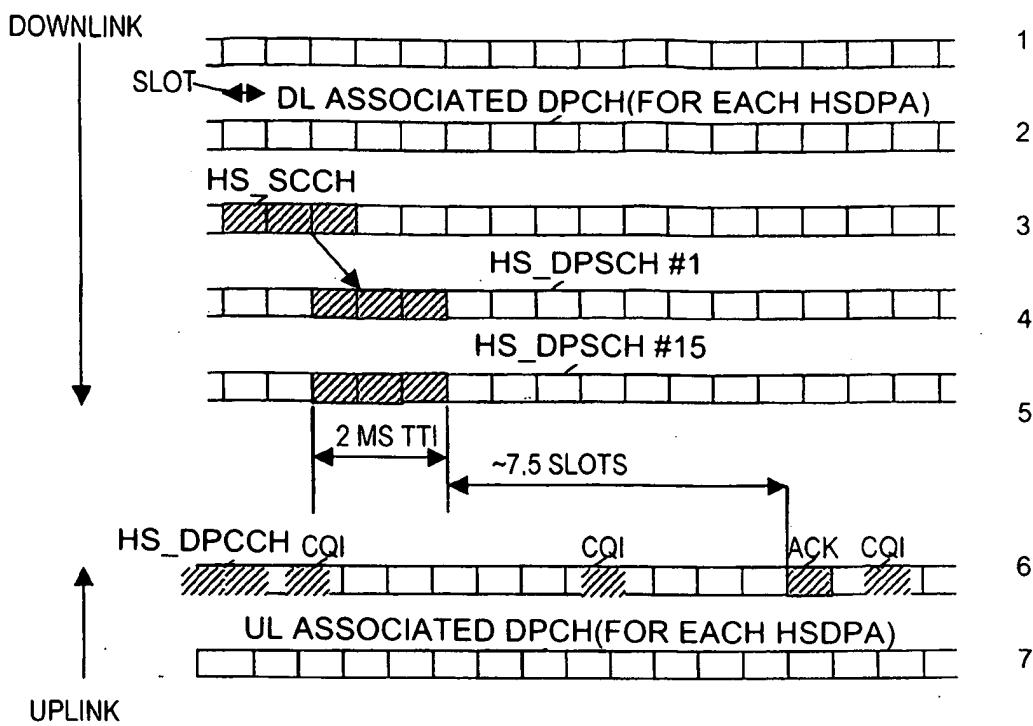


FIG. 1

UNITED STATES PATENT AND TRADEMARK OFFICE
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Page 1 of 9

PATENT NO. : 7,627,336 B2

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

title item

On the ~~Face~~ Page, in ~~Field~~ (57), under "ABSTRACT", in Column 2, Line 9, delete "HSPDA" and insert -- HSDPA --, therefor.

title item

On the ~~Face~~ Page, in ~~Field~~ (57), under "ABSTRACT", in Column 2, Line 15, delete "(P_HS(t-1))" and insert -- (P_H(t-1)) --, therefor.

title item

On the ~~Face~~ Page, in ~~Field~~ (57), under "ABSTRACT", in Column 2, Lines 20-21, delete "(P_HS(t-1))" and insert -- (P_H(t-1)) --, therefor.

title item

On the ~~Face~~ Page, in the Drawing, for Tag "2", delete "HSPDA" and insert -- HSDPA --, therefor.

title item

On the ~~Face~~ Page, in the Drawing, for Tag "3", delete "HS-SCCH" and insert -- HS_SCCH --, therefor.

title item

On the ~~Face~~ Page, in the Drawing, for Tag "4", delete "HS-DPSCH" and insert -- HS_DPSCH --, therefor.

title item

On the ~~Face~~ Page, in the Drawing, for Tag "5", delete "HS-DPSCH" and insert -- HS_DPSCH --, therefor.

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Page 2 of 9

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

+title
On the ~~Face~~ Page, in the Drawing, for Tag “6”, delete “HS-DPCCH” and insert - - HS_DPCCH - -, therefor.

+title
On the ~~Face~~ Page, in the Drawing, for Tag “7”, delete “HSPDA” and insert - - HSPDA - -, therefor.

In Fig. 1, Sheet 1 of 8, for Tag “2”, delete “HSPDA” and insert - - HSDPA - -, therefor.

In Fig. 1, Sheet 1 of 8, for Tag “3”, delete “HS-SCCH” and insert - - HS_SCCH - -, therefor.

In Fig. 1, Sheet 1 of 8, for Tag “4”, delete “HS-DPSCH” and insert - - HS_DPSCH - -, therefor.

In Fig. 1, Sheet 1 of 8, for Tag “5”, delete “HS-DPSCH” and insert - - HS_DPSCH - -, therefor.

In Fig. 1, Sheet 1 of 8, for Tag “6”, delete “HS-DPCCH” and insert - - HS_DPCCH - -, therefor.

In Fig. 1, Sheet 1 of 8, for Tag “7”, delete “HSPDA” and insert - - HSDPA - -, therefor.

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PATENT NO. : 7,627,336 B2

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INVENTOR(S) : Carlsson, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Fig. 2, Sheet 2 of 8, delete "N-TH" and insert - - N_TH - -, therefor.

In Fig. 5, Sheet 3 of 8, delete "HS-PDSCH" and insert - - HS_PDSCH - -, therefor.

In Fig. 5, Sheet 3 of 8, delete "HS-SCCH" and insert - - HS_SCCH - -, therefor.

In Fig. 5, Sheet 3 of 8, delete "POWER AMP" and insert - - POWER_AMP - -, therefor.

In Fig. 5, Sheet 3 of 8, delete "PWR CTRL" and insert - - PWR_CTRL - -, therefor.

In Fig. 5, Sheet 3 of 8, delete "TCP CMD" and insert - - TCP_CMD - -, therefor.

In Fig. 7, Sheet 4 of 8, delete "HS-SCCH" and insert - - HS_SCCH - -, therefor.

In Fig. 7, Sheet 4 of 8, delete "HS-PDSCH" and insert - - HS_PDSCH - -, therefor.

In Fig. 8, Sheet 5 of 8, delete "SCHDEDULE" and insert - - SCHEDULE - -, therefor.

In Fig. 9, Shct 6 of 8, delete "P H(t)" and insrt - - P_H(t) - -, thrcfor.

In Fig. 10, Sheet 6 of 8, delete "P H(t)" and insert - - P_H(t) - -, therefor.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Fig. 11, Sheet 6 of 8, delete "P H(t)" and insert - - P_H(t) - -, therefor.

In Fig. 12, Sheet 7 of 8, delete "P H(t)" and insert - - P_H(t) - -, therefor.

In Fig. 13, Sheet 7 of 8, delete "P H(t)" and insert - - P_H(t) - -, therefor.

In Column 1, Line 10, delete "packet" before "downlink".

In Column 1, Line 11, delete "(HSPDA)." and insert - - (HSDPA). - -, therefor.

In Column 2, Line 37, delete "HSPDA)," and insert - - (HSDPA)", - -, therefor.

In Column 2, Line 38, dclctc "HSPDA" and insert - - HSDPA - -, therfcfor.

In Column 2, Line 48, delete "HSPDA." and insert - - HSDPA. - -, therefor.

In Column 2, Line 51, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 2, Line 53, delete "HSPDA" and insert - - HSDPA - -, therefor.

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Page 5 of 9

PATENT NO. : 7,627,336 B2

APPLICATION NO. : 10/596,730

ISSUE DATE : December 1, 2009

INVENTOR(S) : Carlsson, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 2, Line 56, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 2, Line 57, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 2, Line 66, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 3, Line 5, delete "non-HSPDA" and insert -- non-HSDPA --, therefor.

In Column 3, Line 7, delete "NON_HSPDA" and insert -- NON_HSDPA --, therefor.

In Column 3, Line 11, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 3, Line 12, delete "I_HSPDA" and insert -- I_HSDPA --, therefor.

In Column 3, Line 16, delete "the HSPDA" and insert -- the HSDPA --, therefor.

In Column 3, Line 17, after "used" delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 3, Line 20, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 3, Line 33, delete "throughput" and insert -- throughput. --, therefor.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 3, Line 38, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 3, Line 49, delete "HSPDA," and insert -- HSDPA, --, therefor.

In Column 3, Line 52, after "the" delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 3, Line 53, after "used" delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 3, Line 55, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 4, Line 2, delete "in-put" and insert -- input --, therefor.

In Column 4, Line 8, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 4, Line 12, delete "non-HSPDA" and insert -- non-HSDPA --, therefor.

In Column 4, Line 19, delete "dB/0,67" and insert -- dB/0.67 --, therefor.

In Column 4, Line 61, delete "POWER AMP," and insert -- POWER_AMP, --, therefor.

In Column 5, Line 16, delete "HSPDA" and insert -- HSDPA --, therefor.

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Page 2 of 9

PATENT NO. : 7,627,336 B2

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- In Column 5, Line 17, delete "The HSPDA" and insert - - The HSDPA - -, therefor.
- In Column 5, Line 17, after "schedules" delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 5, Line 21, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 5, Line 23, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 5, Line 31, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 5, Line 32, delete "DATA1," and insert - - DATA1, - -, therefor.
- In Column 5, Line 33, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 5, Lines 33-34, delete "HS_SCH DR" and insert - - HS_SCHDR - -, therefor.
- In Column 5, Line 34, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 5, Line 51, delete "(P_HS(t-1))" and insert - - (P_H(t-1)) - -, therefor.
- In Column 5, Line 57, delete "(P_HS(t-1))" and insert - - (P_H(t-1)) - -, therefor.

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Page 8 of 9

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 6, Line 3, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 6, Line 18, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 6, Line 19, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 6, Line 21, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 6, Line 32, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 6, Line 35, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 6, Line 41, delete "P_Perm" and insert -- P_PERM --, therefor.

In Column 6, Line 48, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 6, Line 51, delete "HSPDA" and insert -- HSDPA --, therefor.

In Column 6, Line 54, delete "P_POS" and insert -- P_POS(t) --, therefor.

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In Column 6, Line 54, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 6, Line 57, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 6, Line 58, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 8, Line 11, in Claim 5, delete "(ODMA)" and insert - - (CDMA) - -, therefor.

In Column 8, Line 14, in Claim 6, delete "(HSPDA)." and insert - - (HSDPA). - -, therefor.

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